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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/998,849	10/24/2001	Seppo Salminen	309-010322-US (PAR)	6896
2512	7590 11/10/2005		EXAMINER	
PERMAN & GREEN			PHAM, TUAN	
425 POST ROAD FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER
			2643	
			DATE MAILED: 11/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Application No. Applicant(s) 09/998,849 SALMINEN ET AL.				
		09/998,849					
		Examiner	Art Unit				
		TUAN A. PHAM	2643				
Period fo	The MAILING DATE of this communica or Reply	ation appears on the cover sh	eet with the correspondence a	ddress			
WHIC - External after - If NC - Failur Any (ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAI nasions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of the president of the second of the president of the second of the	LING DATE OF THIS COMN 37 CFR 1.136(a). In no event, however, ication. ory period will apply and will expire SIX (I, by statute, cause the application to bec	MUNICATION. may a reply be timely filed 6) MONTHS from the mailing date of this tome ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed	on <u>19 August 2005</u> .					
2a)⊠	This action is FINAL . 2b	This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ Claim(s) <u>1-32</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-2, 4-12, 13-16, and 19-32</u> is/are rejected.							
·	7) Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction	on and/or election requiremen	nt.				
Applicati	on Papers						
9)[The specification is objected to by the E	Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to b	y the Examiner. Note the att	ached Office Action or form P	'TO-152.			
Priority (ınder 35 U.S.C. § 119						
· ·	Acknowledgment is made of a claim for ☐ All b) ☐ Some * c) ☐ None of:	r foreign priority under 35 U.S	S.C. § 119(a)-(d) or (f).				
	1. Certified copies of the priority do	ocuments have been received	d				
	2. Certified copies of the priority do						
	3. Copies of the certified copies of	· ·		l Stage			
* 0	application from the Internationa						
	See the attached detailed Office action t	or a list of the certified copie	s not received.				
Attachmen	t(s)						
	e of References Cited (PTO-892)		rview Summary (PTO-413)				
3) Inform	e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date		er No(s)/Mail Date. ce of Informal Patent Application (PT er:	[*] O-152)			
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-32 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. <u>Claims 1-2, 4, 7-11, 13, 15-16, 19, 21-28, and 30-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, "Harris").</u>

Regarding claims 1, 9, 21, and 23, Harris teaches a handset comprising (see figure 1, communication device 100):

a housing (see figure 1, first housing 110) having a display (see figure 1, display 102) and first keypad (see figure 3, first keypad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, ln.45-58);

circuitry within the housing, the circuitry adapted to interface with the display and the first keypad (see figure 3, figure 6, display 102, first keypad 302); and

a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, In.19-43); wherein the second keypad is adapted to replace the first keypad on the housing when the first keypad is removed from the housing and the circuitry is adapted to detect a first electrical resistance of the first keypad (see figure 3, figure 6, figure 9, col.2, In.45-58, col.8, In19-43).

Regarding claim 2, Harris further teaches the handset wherein the circuitry is adapted to detect whether the first keypad or the second keypad is interfacing with the circuitry (see figure 6, electrical connector 522, controller 620, col.5, In.10-20, col.6, In.60-67, col.8, In.50-56).

Regarding claim 4, Harris further teaches the first keypad has a different number of keys than said second keypad (see figure 11-12, telephone keypad 1100, game keypad 1200).

Regarding claim 7, Harris further teaches the handset wherein the first keypad has a larger number of keys than the second keypad and wherein the second keypad has larger keys than the first keypad (see figure 11, 13, keypad 1110, keys 1103, keypad 1300, key 1304-1308).

Regarding claim 8, Harris further teaches the first keypad is adapted to be used with a cordless telephone application and wherein the second keypad is adapted to be used with a game application (see figure 11-12, telephone keypad 1100, game keypad 1200).

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Regarding claim 10, Harris further teaches a handset wherein the first keypad at least partially conceals the telephone keypad (see figure 11, telephone keypad 1100).

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Regarding claim 11, Harris further teaches the handset wherein the circuitry is adapted to detect whether the first keypad or the second keypad is interfacing with the circuitry (see figure 6, electrical connector 522, controller 620, col.5, In.10-20, col.6, In.60-67, col.8, In.50-56).

Regarding claim 13, Harris further teaches the handset wherein the first keypad has a larger number of keys than the second keypad and wherein the second keypad has larger keys than the first keypad (see figure 11, 13, keypad 1110, keys 1103, keypad 1300, key 1304-1308).

Regarding claim 15, Harris teaches a method of exchanging a keypad of a cordless handset comprising the steps of (see figure 3, communication device 100):

providing a housing (see figure 1, first housing 110) having a display (see figure 1, display 102) and first keypad (see figure 3, first key pad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, In.45-58);

providing a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, In.19-43);

removing the first keypad from the housing (see figure 3, keypad 302, col.2, In.48-52);

replacing the first keypad with the second keypad on the housing and (see figure 3, figure 6, figure 9, col.2, ln.45-58, col.8, ln19-43).

electronically sensing (read on detecting) the presence of the second keypad, wherein the step of sending presence of the second keypad comprises sensing an electrical resistance of the second keypad (see figure 3, figure 6, figure 9, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.2, ln.45-58, col.8, ln19-43).

Regarding claim 16, Harris teaches the method of exchanging a keypad further comprising the step of providing circuitry within the housing, the circuitry being adapted to interface with the display and the first keypad (see figure 6, figure 9, display 922, keypad 926, col.5, In.60-67).

Regarding claim 19, White teaches the method of exchanging a keypad further comprising the step of changing a user application of the cordless handset (see figure 11-14, each keypad has predetermined interface for supporting different function such as telephone, game or fax, col.8, In.19-56).

Regarding claim 22, Harris further teaches the device wherein the user interface has a predetermined interface characteristic corresponding to the predetermined characteristic of the device (see figure 11-14, each keypad has predetermined interface for supporting different function, col.8, In.19-56).

Regarding claim 24, Harris further teaches the device wherein when the interchangeable user interface is interchanged with another of the number of different interchangeable user interfaces the device is changed from a first application to a second application (see figure 11-14, each keypad has predetermined interface for supporting different function such as telephone, game or fax, col.8, In.19-56).

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Regarding claim 25, Harris teaches an apparatus comprising a first keypad (see figure 3, keypad 302) for use with a handheld electronic device (see figure 3, communication device 100) having electrical resistance measuring circuitry (read on electrical contact 315)(see figure 3, electrical contact 315, col.5, ln.10-20), the keypad comprising a first electrical resistance indicative of the type of the keypad (see figure 6, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.8, ln.50-56), the keypad being adapted to removably engage the device (see figure 3, removable user interface 300, keypad 302, col.2, ln.49-55).

Regarding claim 26, Harris further teaches a second keypad for use with said handheld electronic device, said second keypad comprising a second electrical resistance indicative of the type of said second keypad, said second electrical resistance being different from said first electrical resistance, said second keypad being adapted to removably engage said device (see figure 3, figures 11-14, first keypad for 1100 for phone interface, second keypad 1200 for game, the keypads 1100 and 1200 are having a different electrical resistance for the controller 620 detects the different type of keypad such as telephone or game when that is inserted to the communication device 100, col.5, In.10-20, col.6, In.60-67, col.8, In.50-56).

Regarding claim 27, Harris further teaches a display (see figure 1, display 102).

Regarding claim 28, Harris further teaches the first keypad has a different number of keys than said second keypad (see figure 11-12, telephone keypad 1100, game keypad 1200).

Regarding claim 30, Harris further teaches a transparent material (see col.7, ln.55-67).

Regarding claim 31, Harris further teaches the handset (see figure 1).

Regarding claim 32, Harris further teaches the first keypad is adapted to be used with a cordless telephone application and wherein the second keypad is adapted to be used with a game application (see figure 11-12, telephone keypad 1100, game keypad 1200).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. <u>Claims 5-6, 20, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, "Harris") in view of Parker et al. (U.S. Patent No.: 5,576,981, hereinafter, "Parker").</u>

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Regarding claims 5, 20, and 29, Harris teaches a handset and method comprising (see figure 1, communication device 100):

a housing (see figure 1, first housing 110) having a display (see figure 1, display 102) and first keypad (see figure 3, first keypad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, ln.45-58);

circuitry within the housing, the circuitry adapted to interface with the display and the first keypad (see figure 3, figure 6, display 102, first keypad 302); and

a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, ln.19-43); wherein the second keypad is adapted to replace the first keypad on the housing when the first keypad is removed from the housing and the circuitry is adapted to detect a first electrical resistance of the first keypad (see figure 3, figure 6, figure 9, col.2, ln.45-58, col.8, ln19-43).

It should be noticed that Harris fails to teach the handset further comprising an illumination source, wherein the illumination source illuminates the first or second keypad when the first or second keypad is coupled to the housing. However, Parker teaches such features (see figure 1, indicator 108, col.4, In.19-32).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Parker into view of Harris in order to provide an indication to the user of current the keypad that is being use.

Regarding claim 6, Harris further teaches a transparent material (see col.7, ln.55-67).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, "Harris") in view of White et
al. (U.S. Patent No.: 6,532,152, hereinafter, "White").

Regarding claim 14, Harris teaches a handset and method comprising (see figure 1, communication device 100):

a housing (see figure 1, first housing 110) having a display (see figure 1, display 102) and first keypad (see figure 3, first keypad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, ln.45-58);

circuitry within the housing, the circuitry adapted to interface with the display and the first keypad (see figure 3, figure 6, display 102, first keypad 302); and

a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, ln.19-43); wherein the second keypad is adapted to replace the first keypad on the housing when the first keypad is removed from the housing and the circuitry is adapted to detect a first electrical resistance of the first keypad (see figure 3, figure 6, figure 9, col.2, ln.45-58, col.8, ln19-43).

It should be noticed that Harris fails to teach a handset comprises a camera interface. However, White teaches such features (see col.9, In.43-45, read on video capture).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of White into view of Harris in order to provide the video function for the communication device.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. 'See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan A. Pham** whose telephone number is

(571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz can be reached on (571) 272-7499 and

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Art Unit 2643 November 3, 2005 Examiner

Tuan Pham

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